

Offshore Wind Deployment in the US and Germany



*Expert Delegation Trip to Germany and Knowledge Exchange
for Stakeholders from the US*

September 11-14, 2023

Organized by:

In cooperation with:

Expert Delegation Trip and Bilateral Knowledge Exchange for Stakeholders from Canada

Sep 11-15, 2023



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WELCOME

DEAR DELEGATES,

Welcome to the expert delegation trip on offshore wind deployment in the US and Germany!

With roughly 8 GW of offshore wind capacity in operation and deployment targets of 40 GW of offshore wind power capacity by 2035 and 70 GW by 2045, German policy makers and energy players have a successful history of developing, installing, operating, and maintaining offshore wind projects. The United States, on the other hand, is poised to accelerate its offshore wind deployment on two coasts and is in a favorable position to take advantage of substantial technology learnings, economies of scale and cost reductions achieved in Germany and in Europe.

With the goal to better understand and navigate a constantly evolving landscape of offshore wind farm needs, the German Federal Ministry for Economic Affairs and Climate Action is pleased to welcome you to this transatlantic knowledge exchange. This delegation trip is part of a broader scale effort to strengthen the energy and climate cooperation between Germany and the United States, encourage the exchange of ideas, and promote policy and technology expertise.

During the four days, you can expect:

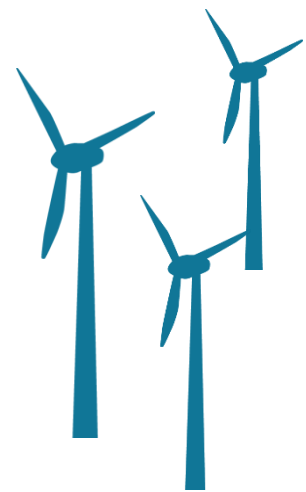
- ▶ **Presentations** on the regulatory, technical, and economic issues facing the offshore wind market in Germany. You will meet and visit relevant key stakeholders.
- ▶ **Meetings** with major offshore wind energy executives from Germany.
- ▶ **Site visits.** You will visit the trade show "HUSUM WIND - Transforming Energy" and large-scale offshore flagship projects along Germany's wind-rich northern coast.
- ▶ Peer-to-peer **knowledge exchange and networking opportunities** with stakeholders from policymaking and industry seeking to advance the offshore wind deployment.
- ▶ **Group discussions** aiming to identify actions for continuing cooperation and to turn learnings into actionable items.

To ensure that you get the most from taking part, we have prepared this small information booklet containing important information that you will find useful before, during and after the delegation trip.

We wish you an enriching experience during your four days here in Germany!

Yours faithfully,

Berthold Breid
CEO RENAC



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YOUR CONTACTS

For questions during the delegation trip, please reach out to us:



Ms. Cecilia Strandberg

Project Director

Renewables Academy (RENAC) AG

Schönhauser Allee 10-11

10119 Berlin

Germany

E-Mail: energycooperation@renac.de

Phone: 0049 30 58 70870 42



Ms. Jana Detmering

Project Assistant

Renewables Academy (RENAC) AG

Schönhauser Allee 10-11

10119 Berlin

Germany

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DELEGATION TRIP PROGRAM

Monday, September 11, 2023

Introduction & meeting with government agencies & stakeholders / Berlin

Time <small>CEST/ UTC +2</small>	Top	Venue/ Speaker
08:00 am	Meeting point at hotel reception & walk to meeting venue	Meeting point for walk to meeting venue: Hotel Motel One Berlin-Hauptbahnhof (hotel reception) Invalidenstraße 54 10557 Berlin Hotel – BMWK 1 km, 15 min (by foot)

08:30 am	Registration and welcome	Meeting venue: German Federal Ministry for Economic Affairs and Climate Action (BMWK) Scharnhorststraße 34-37 10115 Berlin Entrance: Tor 2 Room: G 3.021 (Saal 4) www.bmwk.de
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Welcome and introduction

09:00 am	Welcome and introduction <ul style="list-style-type: none">WelcomeIntroduction to the week's programIntroduction round participants	Renewables Academy (RENAC) AG www.renac.de US Embassy (tbc) https://de.usembassy.gov/ All participants
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Welcome and introduction to the international energy policy agenda by the Federal Ministry for Economic Affairs and Climate Action (BMWK) – Keynote

- 09:30 am
- Welcome and introduction to the international energy policy agenda
 - US-German bilateral working group on offshore wind (goals, activities, outlook)
 - Snapshot - German Energy transition (drivers, milestones, what has worked, what did not)
 - Role of offshore wind for the German energy transition

Dr. Dominik Schnichels

Director General External Economic Policy

German Federal Ministry for Economic Affairs and Climate Action (BMWK)

www.bmwk.de

The German energy transition and the role of offshore wind (1)

- 09:45 am
- Background, targets and status of the German energy transition (Energiewende)
 - Phasing out nuclear and coal, phasing in renewables and efficiency
 - Evolving role of offshore wind in the new government's strategy for 70 GW until 2045

Mr. Florian Knobloch

Policy Officer, Division "General issues of bilateral climate and energy cooperation; cooperation with North America, East Asia, Oceania and Turkey"

Dr. Anne-Maria Ide

Policy Officer, Division "Offshore Wind Energy"

German Federal Ministry for Economic Affairs and Climate Action (BMWK)

www.bmwk.de

10:45 am **Q&A and open discussion on bilateral cooperation opportunities**

All participants

11:15 am Coffee / tea break *

Offshore wind power sector in Germany (2)

- 11:30 am
- From political target setting to implementation: Challenges for the further wind offshore sector development to reach 70 GW until 2045:
 - regulatory framework
 - industry scale-up
 - Cooperation with industry associations to develop the offshore wind energy sector
 - Status quo & policy developments on offshore wind & green hydrogen
 - Outlook
 - Q&A

Ms. Karina Würtz

Managing Director

Foundation Offshore Wind Energy (SOW)

<https://www.offshore-stiftung.de/en>

Offshore wind in the US – Input presentation (3)

- 12:30 pm
- US power system infrastructure
 - Role of offshore wind in the US
 - Development & outlook

Ms. Karen Baker

Chief of Office Renewable Energy Programs

Bureau of Ocean Energy Management (BOEM)

www.boem.gov

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01:00 pm	Q&A and open discussion	All participants
01:15 pm	Walk to restaurant *	BMWK – restaurant 850 m, 15 min (by foot)
01:30 pm	Lunch break at restaurant Reinhard Bär *	Restaurant “Reinhard Bär” Am Hamburger Bhf 4, 10557 Berlin
02:30 pm	Walk to meeting venue *	Restaurant - BMWK 850 m, 15 min (by foot)
03:00 pm	<p>Regulatory framework for offshore wind and offshore wind grid connection (4)</p> <ul style="list-style-type: none"> Regulatory framework for offshore wind planning and grid connection Outlook 2030: What are the next steps? Q&A 	<p>Dr. Deniz Erdem <i>Senior Policy Advisor, International Department</i></p> <p>Federal Network Agency (BNetzA) www.bundesnetzagentur.de/EN/</p>
04:00 pm	<p>Maritime spatial planning and licensing (5)</p> <ul style="list-style-type: none"> Identification of suitable areas for 70 GW offshore wind until 2045 Licensing requirements & licensing procedure for offshore wind farms & grid connections Q&A 	<p>Mr. Ulrich Scheffler <i>Specialist for Maritime Spatial Planning</i></p> <p>Federal Maritime and Hydrographic Agency (BSH) www.bsh.de/EN/</p>
05:00 pm	Q&A and open discussion	All participants
05:30 pm	End of sessions day 1 and walk to hotel	BMWK – hotel 1 km, 15 min (by foot)
06:00 pm	Leisure time until Welcome Dinner	
06:45 pm	Meeting at hotel reception and transfer to restaurant by taxi *	Hotel – restaurant 3 km, 10 min (by taxi)
07:00 pm	Welcome Dinner at restaurant Ganymed Brasserie *	Restaurant „Ganymed Brasserie” Schiffbauerdamm 5 10117 Berlin

End of day 1

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Tuesday, September 12, 2023

Meeting with TSO and transfer to Flensburg / Berlin, Flensburg

Time <small>CEST/ UTC +2</small>	Top	Venue/ Speaker
09:30 am	Check-out hotel in Berlin and walk to meeting venue *	<p>Meeting point for walk to meeting venue:</p> <p>Hotel Motel One Berlin-Hauptbahnhof (hotel reception) Invalidenstraße 54 10557 Berlin</p> <p>Hotel – 50Hertz 500 m, 10 min (by foot)</p>

09:45 am	Welcome and registration	<p>Meeting venue:</p> <p>50Hertz Heidestraße 2 10557 Berlin www.50hertz.com</p>
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10:00 am	<p>Meeting with TSO 50Hertz (6)</p> <ul style="list-style-type: none"> • Role and responsibilities of the transmission grid operator to connect offshore wind to grid (historical & outlook) • Investment in infrastructure: Grid extension planning – how much grid will be needed? • Cross national offshore wind projects and grid connection • Outlook, Q&A, open discussion 	<p>Dr. Clemens Unger Project Director Interconnector Projects</p> <p>Ms. Julia Herter Head of Analytics & Performance (System Operations)</p> <p>50Hertz www.50hertz.com</p> <p>Mr. Andy Geissbuehler CEO WindGrid USA</p> <p>Mr. Thomas Köbinger Global Leader Market Development and Project Origination</p> <p>WindGrid www.windgrid.com</p>
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11:30 am	Walk to hotel, pick-up luggage & lunch boxes	50Hertz - hotel 500 m, 10 min (by foot)
12:30 pm	Walk to Berlin central station by foot	Hotel - central train station 500 m, 10 min (by foot)
01:30 pm	Train transfer from Berlin to Flensburg with lunch boxes on the train *	Berlin - Flensburg ~4 h (by train)
06:00 pm	Arrival in Flensburg, taxi transfer & check-in to hotel *	Hotel Ramada by Wyndham Norderhofenden 6-9 24937 Flensburg
06:45	Walk to restaurant	Hotel - restaurant 500 m, 10 min (by foot)
07:00 pm	Optional: Joint dinner at restaurant Kanalschuppen (\$)	Restaurant "Kanalschuppen" Am Kanalschuppen 6 24937 Flensburg

End of day 2

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Wednesday, September 13, 2023 HUSUM WIND – Transforming Energy / Husum

Time <small>CEST/ UTC +2</small>	Top	Venue/ Speaker
07:30 am	Meeting point at hotel reception & walk to meeting venue *	<p>Meeting point for walk to meeting venue:</p> <p>Hotel Ramada by Wyndham Norderhofenden 6-9 24937 Flensburg</p> <p>Hotel – FWOL 500 m, 10 min (by foot)</p>
07:40 am	Welcome and registration	<p>Venue:</p> <p>FRS Windcat Offshore Logistics GmbH (FWOL) Norderhofenden 19-2 24937 Flensburg www.fwol.de/en/</p>
07:45 am	<p>Meeting with FRS Windcat Offshore Logistics GmbH (FWOL) (7)</p> <ul style="list-style-type: none"> Leading provider of highly specialized Crew Transfer Vessels (CTVs) Overview of company, product portfolio, challenges and outlook Q&A 	<p>Mr. Frank Wiebe <i>Operations Manager FRS Windcat Offshore Logistics</i></p> <p>Mr. Moritz Bruns <i>Director Business & Corporate Development von FRS</i></p> <p>FRS Windcat Offshore Logistics GmbH (FWOL) www.fwol.de/en/</p>
08:45 am	Bus transfer to HUSUM WIND in Husum *	Flensburg - Husum 60 km, 1h (by bus)
09:45 am	Registration at HUSUM WIND	<p>HUSUM WIND – Transforming Energy Am Messepl. 12-18 25813 Husum https://husumwind.com/en/</p>

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Visit of the HUSUM WIND –Transforming Energy

The trade fair HUSUM WIND taking place from 12-15 September 2023 is the meeting place for national and international experts from all parts of the value creation chain, ranging from project development and planning to financing and insurance, production, plant and equipment transport and installation with special purpose vessels, to grid connection and the operation and servicing of offshore wind farms.

US participants will have the unique opportunity to meet, discuss and network with key stakeholders from the German offshore wind sector. See draft schedule below.

09:50 am **Welcome by Managing Director** Messe Husum & Congress (MHC) **Ms. Meike Kern**

Ms. Meike Kern
Managing Director Messe Husum & Congress (MHC)
HUSUM WIND – Transforming Energy
<https://husumwind.com/en/>

10:00 am **Panel Discussion “Importance of the supply industry for offshore wind energy expansion in the US and Germany” (8)**

- Panel discussion on the “Importance of the supply industry for offshore wind energy expansion in the US and Germany” organized in cooperation with WAB e.V. (Wind Agentur Bremerhaven)
- Panel participants from the US and Germany

Panel hosted and moderated by:
Ms. Heike Winkler
Managing Director
WAB e.V.
(Wind Agentur Bremerhaven)
<https://www.wab.net/en/>

11:15 am **Guided Round Tour Part I (9)**

- Visit of different stands
- Expert exchange with representatives from Renewable Energy Hamburg (EE.HH.) and Chamber of Commerce and Industry of Cottbus (CCI Cottbus) on the role of offshore wind for the regional economic development
- Note: Visits will partly take place in two groups

Guided Round Tour Part I

12:45 pm Lunch break *

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01:15 pm	Coffee and chat with Minister President of the Federal State Schleswig Holstein Mr. Daniel Günther	Mr. Daniel Günther <i>Minister president of the federal state of Schleswig-Holstein</i> https://www.daniel-guenther-cdu.de/
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02:00 pm	Guided Round Tour Part II (10) <ul style="list-style-type: none"> • Guided tours to meet with key stakeholders of the German offshore industry (Siemens Gamesa, Vestas) • Expert exchanges with representatives from the offshore wind sector (the German Wind Energy Association (BWE), VDMA, GP Joule, Deutsche Windtechnik) • Visit of different stands • Note: Visits will partly take place in two groups 	Guided Round Tour Part II
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05:00 pm	Free time for networking	Networking
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06:00 pm	HUSUM Wind Happy Hour Networking Event (\$) Opportunity for US delegation to network with key stakeholders from the German offshore sector	Networking
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07:30 pm	Bus transfer to restaurant in Husum *	Husum Wind - restaurant 5 km, 15 min (by bus)
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08:00 pm	Joint dinner at restaurant Husums Brauhaus (\$)	Restaurant "Husums Brauhaus" Neustadt 60-68 25813 Husum, Schleswig-Holstein
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10:00 pm	Bus transfer to hotel in Flensburg *	Husum Wind – hotel Flensburg 60 km, 1h (by bus)
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End of day 3

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Thursday, September 14, 2023

Site visit, meeting with stakeholders and transfer to Hamburg / Heligoland

Time <small>CEST/ UTC +2</small>	Top	Venue/ Speaker
09:30 am	Check-out hotel in Flensburg and bus transfer to Heide-Büsum *	Meeting point for bus transfer: Hotel Ramada by Wyndham Norderhofenden 6-9 24937 Flensburg Hotel Flensburg – Heide-Büsum 110 km, 1h 45min (by bus)
12:30 pm	<p>Site visit of large-scale offshore flagship projects (11) (*)</p> <ul style="list-style-type: none"> Site visit of large-scale offshore flagship projects along Germany's wind-rich northern coast Site to be conducted via flight in two small airplanes 	<p>Flight Over some of Northern Sea's Primary Offshore Parks</p> <p>Depending on weather conditions this may include the offshore parks: Meerwind Süd Ost, Nordsee Ost. Kaskasi, Amrumbank West</p>
01:30 pm	Bus transfer to restaurant in Büsum *	Heide-Büsum – restaurant 5 km, 15 (by bus)
02:00 pm	Lunch at restaurant Landgang *	Restaurant „Landgang“ Am Museumshafen 11 25761 Büsum
03:00 pm	Bus transfer to hotel in Hamburg *	Büsum – hotel Hamburg 150 km, ~2 h (by bus)
	<p>During transfer:</p> <p>Feedback by US participants on lessons learnt from the expert delegation trip meetings and site visits.</p> <p>Wrap up delegation trip:</p> <ul style="list-style-type: none"> Concluding remarks Next steps and potential future collaborations Feedback round Evaluation and closing of expert delegation trip 	All participant
05:00 pm	Arrival in hotel in Hamburg, check-in hotel and re-fresh	Relaxa hotel Bellevue Hamburg An d. Alster 14 20099 Hamburg
06:30 pm	Optional: Joint final dinner at restaurant Seehaus (\$)	Restaurant “Seehaus Hamburg” An d. Alster 10A 20099 Hamburg

End of day 4 and expert delegation

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Foot note:

* Arranged and costs covered by hosts

(*) Transfer options and site visits are subject to weather conditions. In the event of unfavorable weather, the program organizer reserves the right to cancel the site visit. If feasible, an alternative activity may be arranged as a substitute for the scheduled site visit, with short notice.

(\$) Costs to be borne by participant

The expert delegation trip will take place in Germany from September 11-14, 2023. The trip will start in Berlin on September 11, 2023 and will end in Hamburg on September 14, 2023.

Please note:

Kindly be aware that the program is subject to modifications based on factors such as the availability of participating organizations, logistical considerations, and other relevant factors. The program organizer reserves the right to make adjustments to the content and schedule of the agenda with short notice.

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US DELEGATION

#	Title	First Name	Last name	Position	Institution
1	Ms.	Karen	Baker	Chief of Office Renewable Energy Programs	Department of Interior (BOEM(Office of Renewable Programs)
2	Ms.	Janine	Benner	Director	Oregon Department of Energy
3	Mr.	John	Bernecker	Senior Advisor for Transmission, Large-Scale Renewables	NYSERDA
4	Ms.	Bria	Calvin	State Project Manager, Louisiana Political Affairs	Environmental Defense Fund
5	Mr.	Glenn	Davis	Director, Virginia Department of Energy	Commonwealth of Virginia, Department of Energy
6	Mr.	Michael	Ernst	Principal, Green Phoenix Evolution LLC	Green Phoenix Evolution LLC
7	Mr.	Lars	Gonschorek	Head of Development, Offshore Wind US	TotalEnergies Renewables USA
8	Mr.	Gregory	Lampman	Director of Offshore Wind	New York State Energy Research and Development Authority (NYSERDA)
9	Ms.	Camille	Manning-Broome	President & CEO	Center for Planning Excellence
10	Ms.	Anne	Reynolds	Executive Director	Alliance for Clean Energy New York
11	Mr.	Max	Taffett	Senior Vice President, Offshore Wind + PortNYC Planning	New York City Economic Development Corporation (NYCEDC)
12	Mr.	Toussaint	Williams	U.S. Representative	German Offshore Wind Initiative (GOI)
13	Ms.	Sarah	Xu	Senior Policy Associate	Brightline Defense Project ("Brightline")

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GERMAN SPEAKER PROFILES

By order in the program:

Dr. Dominik Schnichels

Director General External Economic Policy

German Federal Ministry for Economic Affairs and Climate Action (BMWK)



Dominik was until recently (January 2022) the Director of DG TAXUD/A – Customs in the European Commission. His Directorate was inter alia responsible for the enforcement of IPRs by national customs authorities. He is a German lawyer by training who started his career in an international law firm before joining the Commission in 1995, where he served in five DGs (TRADE, COMP, SANTE, OLAF and TAXUD).

Previous positions include: (1) director for internal investigations and investigations into fraud relating to direct expenditure (OLAF), (2) head of unit responsible for pharmaceutical policy (health technology assessment) and head of unit for tobacco control and organ/blood/tissue donation (SANTE), (3) head of unit/deputy head of unit responsible for the enforcement of competition law in the health sector and in the energy sector.

Dominik regularly publishes articles on European law, is the co-editor of a law journal and Professor for European law in Bonn.

Florian Knobloch

Policy Officer, Division "General issues of bilateral climate and energy cooperation; cooperation with North America, East Asia, Oceania and Turkey"

German Federal Ministry for Economic Affairs and Climate Action (BMWK)



Dr. Florian Knobloch is deputy head of the division "Climate and energy cooperation with industrialized countries, hydrogen initiatives" at the Federal Ministry for Economic Affairs and Climate Action (BMWK). Amongst others, he is responsible for the energy and climate cooperation with North America.

Before joining the BMWK in 2019, Florian worked as a researcher at the Environmental Science Department of Radboud University Nijmegen (The Netherlands), as a consultant for Cambridge Econometrics (UK) and as a senior policy analyst for the Federation of German Industries (Germany). Dr. Florian Knobloch studied economics and environmental policy in Berlin, Budapest and Cambridge (UK) and holds a PhD degree in environmental science of Radboud University Nijmegen, The Netherlands.

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Dr. Anne-Maria Ide

Policy Officer, Division "Offshore Wind Energy"

German Federal Ministry for Economic Affairs and Climate Action (BMWK)



Dr. Anne-Maria Ide is policy officer in the Offshore Wind Energy Division of the BMWK since 2021. Between 2017 and 2021, she served as a seconded national expert at the EU Commission in the Renewable Energy Unit. Prior to that, she was engaged in European renewable energy matters at BMWK.

Anne-Maria Ide holds a PhD in Law, specializing in support for renewable energies under EU law. Her dissertation is titled "Cross-border Support to Renewable Energies in the European Internal Electricity Market." She also holds a university degree ("Diplom") in European and German Economics.

German Federal Ministry for Economic Affairs and Climate Action (BMWK)

Responsibilities within the field of energy and climate policy are being pooled in the BMWK. This is enabling an "energy policy from one source" and offers the advantage of covering the energy market in its entirety.

The BMWK is responsible for all issues relating to the Energiewende. Its goal is a secure, environmentally friendly and affordable energy supply.

Thanks to appropriate framework conditions, the BMWK will ensure that the Energiewende becomes a driver for investment and modernization that contribute to innovation, economic growth and employment.



Federal Ministry
for Economic Affairs
and Climate Action

www.bmwk.de

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Karina Würtz

Managing Director

Foundation OFFSHORE WIND ENERGY (SOW)



Karina is a senior management executive and offshore wind enthusiast with a passion for connecting people and driving innovation. Being in the renewables industry since 2007 and in Offshore Wind since 2010, she can rely upon a widespread and well-established network in business, authorities and R&D. Before joining the Offshore Wind Energy Foundation in Summer 2021 as a Managing Director, she gathered indepth experience (from 2017 - 2021) in offshore wind operations as General Manager of NordSee Ost, an Offshore Windfarm located some miles off the coast of Heligoland. From 2010 - 2016, she led various senior management positions in RWE Innogy's offshore Wind construction division, being responsible for an international and multidisciplinary team focused on risk & insurance management, project controls and project planning & scheduling. Her academic background is in economics & finance as well as in political science.

Foundation OFFSHORE WIND ENERGY (SOW)

The German Offshore Wind Energy Foundation was founded in 2005 on the initiative of the industry and under the moderation of the German Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection (BMUV). It has established itself as a non-partisan, supra-regional and independent ThinkTank for the development of offshore wind energy in Germany and Europe. It serves as a communication platform for stakeholders from the political, industrial and research sector, enables knowledge exchange and serves as driver of ideas. The foundation's board of trustees includes key federal and state ministries for offshore wind as well as operators, manufacturers, transmission system operators, suppliers, banks and insurance companies.



www.offshore-stiftung.de/en

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Dr. Deniz Erdem

Senior Policy Advisor, International Department
Federal Network Agency (BNetzA)



Deniz Erdem is working as economist at the Bundesnetzagentur (Federal Network Agency for Electricity, Gas, Telecommunications, Post and Railway) since 2012.

He started his career at the Department for Planning Approval for Grid Expansion Measures. Since 2015 he is working for the International Department and responsible for several topics relating to regulation and European infrastructure expansion.

He chairs different working groups on market monitoring and retail topics on European level. He also works as an independent infrastructure expert for the EU Commission and is a lecturer at the University of Wuppertal.

Federal Network Agency (BNetzA)

The Bundesnetzagentur is an independent higher federal authority within the scope of business of the Federal Ministry of Economics and Energy, and has its headquarters in Bonn. On 13 July 2005, the Regulatory Authority for Telecommunications and Post, which superseded the Federal Ministry of Post and Telecommunications (BMPT) and the Federal Office for Post and Telecommunications (BAPT), was renamed the Bundesnetzagentur. It also acts as the root certification authority under the Electronic Signatures Act.

Since 2011, the Bundesnetzagentur has taken on additional duties relating to the Network Development Plan. Where this indicates a need for expansion on the extra-high voltage level, the Bundesnetzagentur ensures accelerated implementation via efficient planning and approval procedures.

www.bundesnetzagentur.de/EN/



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Ulrich Scheffler

Specialist for Maritime Spatial Planning

Federal Maritime and Hydrographic Agency (BSH)



Ulrich Scheffler is specialist for Maritime Spatial Planning at the Federal Maritime and Hydrographic Agency (BSH). In his role, he is involved in the revision of the German maritime spatial plan for the German EEZ and its implementation. Previously, he served as project coordinator for the Interreg NorthSEE Project in the area of maritime spatial planning in the North Sea. Between 2005 and 2016, Ulrich Scheffler worked as technical advisor for land management in Cambodia, Zambia and Namibia within the framework of the German development cooperation. From 2000 to 2005, he worked as project manager in environmental management at Deutsche Bahn (German Railway).

Ulrich Scheffler studied Geography (M.Sc.) with the minor subjects Geology and Business Administration. He later held the position of assistant professor in Geology at the University of Mannheim, Germany from 1997 to 2000.

Federal Maritime and Hydrographic Agency (BSH)

The BSH is a higher federal authority within the portfolio of the Federal Ministry for Digital and Transport (BMDV). It is the public institution for maritime tasks. The Management of the Sea Department's overriding goal is to implement the climate policy guidelines of the German government, to contribute to energy system transformation and the coordinated expansion of offshore wind energy and the necessary grid connection in the German EEZ in a way that is compatible with nature and space. On the basis of the spatial development plans and the technical planning specifications, the use and protection of the oceans must be balanced under the condition of sustainable development. Tasks include: Preparation of the site development plan; Development of the spatial development plan with definition of priority and reserved areas for various use/functions; Preliminary investigation of areas and checking the suitability of these areas for offshore wind energy; Management of planning approval and approval procedures for offshore wind farms, converters, power cables and pipelines; Approval of research activities, environmental audits & plausibility check of technical documents; Construction and operation approval & supervision of construction and operation

<https://www.bsh.de/EN>



BUNDESAMT FÜR
SEESCHIFFFAHRT
UND
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Mr. Clemens Unger

Project Director Interconnector Projects
50Hertz Transmission GmbH



Clemens Unger studied Physics and got the PhD as a post graduate at Siemens. In his professional carrier, he worked as a group leader at the Siemens R&D department, head of Cable Engineering at Norddeutsche Seekabelwerke (NSW a Siemens subsidiary company), VP Technology and afterwards General Manager Operations (at NSW a Corning Cables subsidiary company). Finally, Clemens Unger was promoted as MD of NSW (NSW a General Cable subsidiary company). He transformed NSW from a telecommunication company into a submarine power cable manufacturer (incl. investments into a new power cable factory and successful implementation of the first projects). Clemens Unger started in 2011 at ntc cables as a project manager for a grid connection between two offshore substations in Baltic Sea and in 2017 at 50Hertz Transmission as the project director for an interconnector project towards Sweden.

Ms. Julia Herter

Head of Analytics & Performance (System Operations)
50Hertz Transmission GmbH



Julia Herter is head of Analytics & Performance in the system operations department of 50Hertz. The team's main task is to analyze all processes and data in system operations using innovative methods, to drive forward a comprehensive KPI logic in cooperation with colleagues in the strategic and operational departments, to prepare the accounting processes and to ensure the transparency obligations. Herter studied electrical engineering and information technology at the Technical University of Ilmenau, specializing in electrical power engineering. Along the way, she completed an integrated degree program within the E.ON Group. From 2015 to 2020, she worked as engineer at the transmission system operator TenneT in Bayreuth. Herter led research projects in the context of grid restoration and emergency processes in which the interaction of grid operators in the event of threats and disruptions to system security was investigated. Subsequently, she worked on international congestion management topics and capacity calculation. She was responsible for the market and system integration of the NordLink interconnector between Germany and Norway.

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50Hertz Transmission GmbH

50Hertz operates the electricity transmission system in the north and east of Germany, which it expands as needed for the energy transition. Our extra high voltage grid has an electrical circuit length of more than 10,000 kilometres, or the distance between Berlin and Rio de Janeiro. The 50Hertz control area covers the Länder of Brandenburg, Mecklenburg-Western Pomerania, Saxony, Saxony-Anhalt, and Thuringia, as well as the city states of Berlin and Hamburg. Within these regions, 50Hertz and its around 1,400 employees ensure that 18 million people are supplied with electricity around the clock. 50Hertz is a forerunner in the field of secure integration of renewable energy. In our grid area, we want to integrate 100 percent renewable energies securely into the grid and system by 2032 - calculated over the year. The shareholders of 50Hertz are the Belgian holding Elia Group (80 percent), which is listed on the stock exchange, and the KfW bank group with 20 percent. As a European TSO, 50Hertz is a member of the European Network of Transmission System Operators for Electricity (ENTSO-E).

www.50hertz.com



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Mr. Andy Geissbuehler

CEO WindGrid USA
WindGrid



Andy is the CEO of WindGrid USA, an Elia Group Company, dedicated to deliver offshore wind power to US households through the development, construction, and operation of comprehensive HVDC transmission solutions.

Andy brings over 25 years of large-scale energy project experience and held executive positions with industry leaders such as ABB, Alstom and GE. Within his 15 years of offshore wind experience, his responsibilities with GE included turbine supply, installation and port operation for the Block Island Project, the first commercial offshore windfarm in the US.

Prior to joining WindGrid, Andy was leading Atlantic Power Transmission, a Blackstone Portfolio Company and one of the bidders for New Jersey's planned transmission solicitation in 2021.

Andy is a Swiss and American citizen and holds a Master's in Engineering (ETH Zurich) and an MBA (William & Mary Mason School of Business, Virginia).

Mr. Thomas Köbinger

Global Leader Market Development and Project Origination
WindGrid



Thomas is leading the Market Development and Project Origination in WindGrid. In his role, he is responsible to assess energy markets globally in order to i) identify the need for and ii) originate holistic offshore transmission projects.

Thomas brings over 10 years of professional experience in the power sector, including power system planning, renewable energy integration, offshore market assessment & project development. Through his former positions in Grid Planning, Markets and System of the Future within 3 major European TSO (TenneT, 50Hertz and Elia Group), he has built up vast knowledge on effective strategies for a successful energy transition based on an integrated system view in order to identify & prioritize the key transmission projects for society and transmission developers /TSO.

Thomas is based in Berlin and holds a Master's degree in Renewable Energy Systems (Technical University Berlin).

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WindGrid

WindGrid is a subsidiary of ELIA Group, one of the top 5 transmission utilities in Europe. ELIA Group main subsidiaries, Elia and 50Hertz, are regulated entities in charge of designing, developing, owning and operating the onshore and offshore transmission grids in Belgium and in the eastern part of Germany.

ELIA Group created WindGrid in 2022 to support governments, utilities and/or generators in the efficient integration of offshore wind to onshore grid. Indeed, WindGrid can invest outside of Belgium and Germany in the development, construction and operation of offshore transmission infrastructures, and bring Elia and 50Hertz decades of experience developing, owning and operating offshore transmission infrastructures in the North and Baltic seas. In total, ELIA Group is operating >5GW of offshore transmission infrastructures and currently developing >10GW of additional capacities, connecting offshore wind farms, multiple States (and a combination of both), with both HVAC and HVDC technologies.

WindGrid current regional focus is Europe (including the UK) and the US. In the US, WindGrid has established an office in 2023 and established first partnerships with utilities on the East Coast.

www.windgrid.com

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This delegation trip is organized by the Renewables Academy (RENAC) AG in cooperation with its partners adelphi and the German American Chambers of Commerce (AHK) as part of the US Germany Climate and Energy Partnership.

About the Renewables Academy (RENAC) AG

The Renewables Academy AG (RENAC) is a leading international provider of training, educational programs and capacity building services in the field of renewable energy and energy efficiency.

Since its foundation in 2008, RENAC has trained over 30,000 professionals from more than 160 countries in the use and implementation of different renewable energy technologies covering technical aspects, policy, regulatory framework, project development, and financial aspects. As part of its service portfolio, RENAC also offers support to major private and public organizations, international agencies, universities and governments in setting up and developing own in-house training portfolios, drawing on its extensive experience in training material development and training delivery.



Since 2016, RENAC is part of a consortium supporting the German Federal Ministry for Economic Affairs and Climate Action (BMWK) in its endeavor to strengthen its bilateral energy cooperation initiatives with the United States, Canada, Australia, and New Zealand. Within this consortium, RENAC organizes high-level expert exchanges between Germany and the partner countries.

Contact: Cecilia Strandberg, Project Director Energy and Climate Policy, strandberg@renac.de, +49 30 58 70870 42

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YOUR PARTICIPATION

The aim of this delegation trip is to provide a space for exchange and discussion, and everyone present brings a wealth of experience to the table. In order for everyone to benefit the most from taking part we encourage you to actively participate in the activities and discussions.

During the four days of the delegation trip, we ask you to please consider the following in order to make the exchange as interactive and fruitful as possible for all of you:

- ▶ **Contribute to the discussion.** We want you to be involved, so please do not hesitate to ask your questions or contribute to the discussion.
- ▶ **Be on time.** Please be on time at the meeting points at the times indicated in the agenda and let your hosts know immediately in case of any urgency matters arising throughout the four days.
- ▶ **Participate in all sessions.** We all count on your participation in every session throughout the four days of the delegation trip.
- ▶ **Agree to disagree (if necessary) and be respectful of others.** Please consider the discussions as exchanges between experts for the purpose of learning. During the sessions, participants are free to express their opinions and concerns. Differences in approaches and strategies are more than welcome. Everyone should contribute to a calm, non-judgemental and sharing environment.

We look forward to a fruitful four-day exchange with you!

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IMPORTANT CONTACT NUMBERS

During your stay here in Germany, please find below important contact numbers:

Emergency Number

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Clayallee 170
14191 Berlin
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Website: www.wyndhamhotels.com/de-de/ramada/flensburg-germany/ramada-flensburg/overview

Hotel Relexa
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Phone: +49 40 284440
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